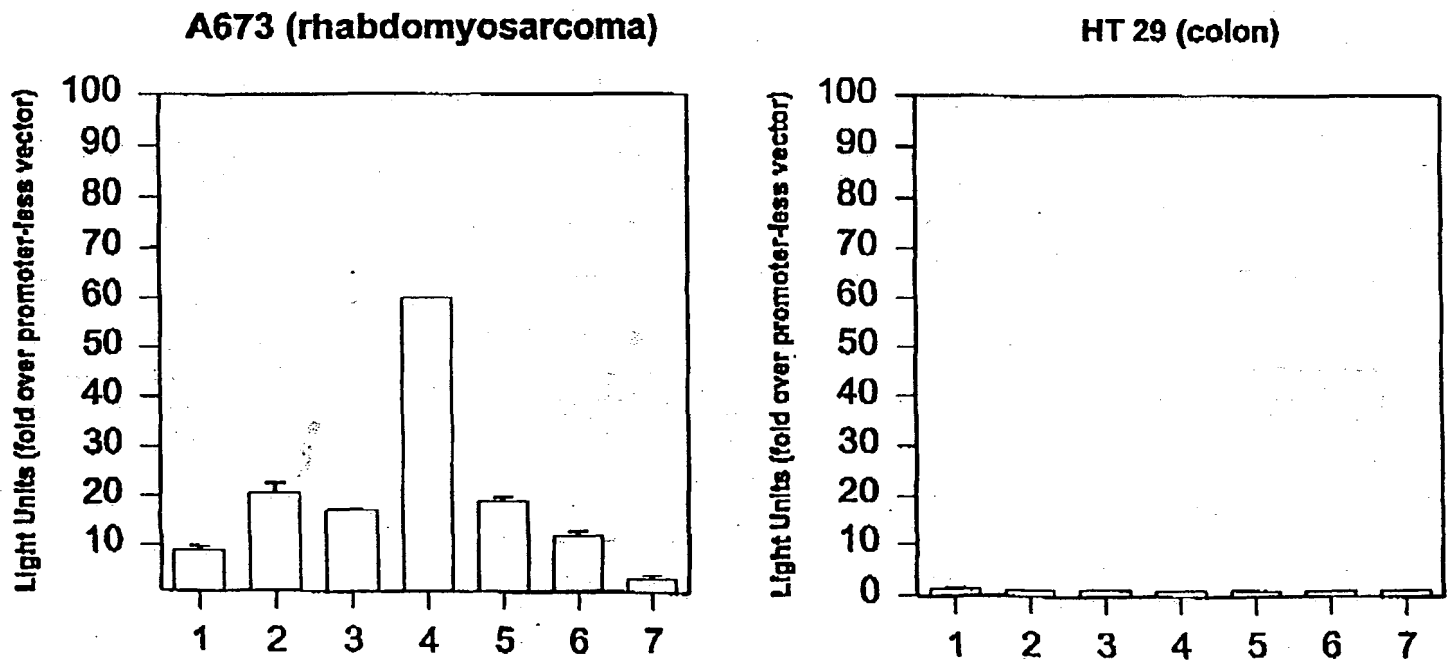
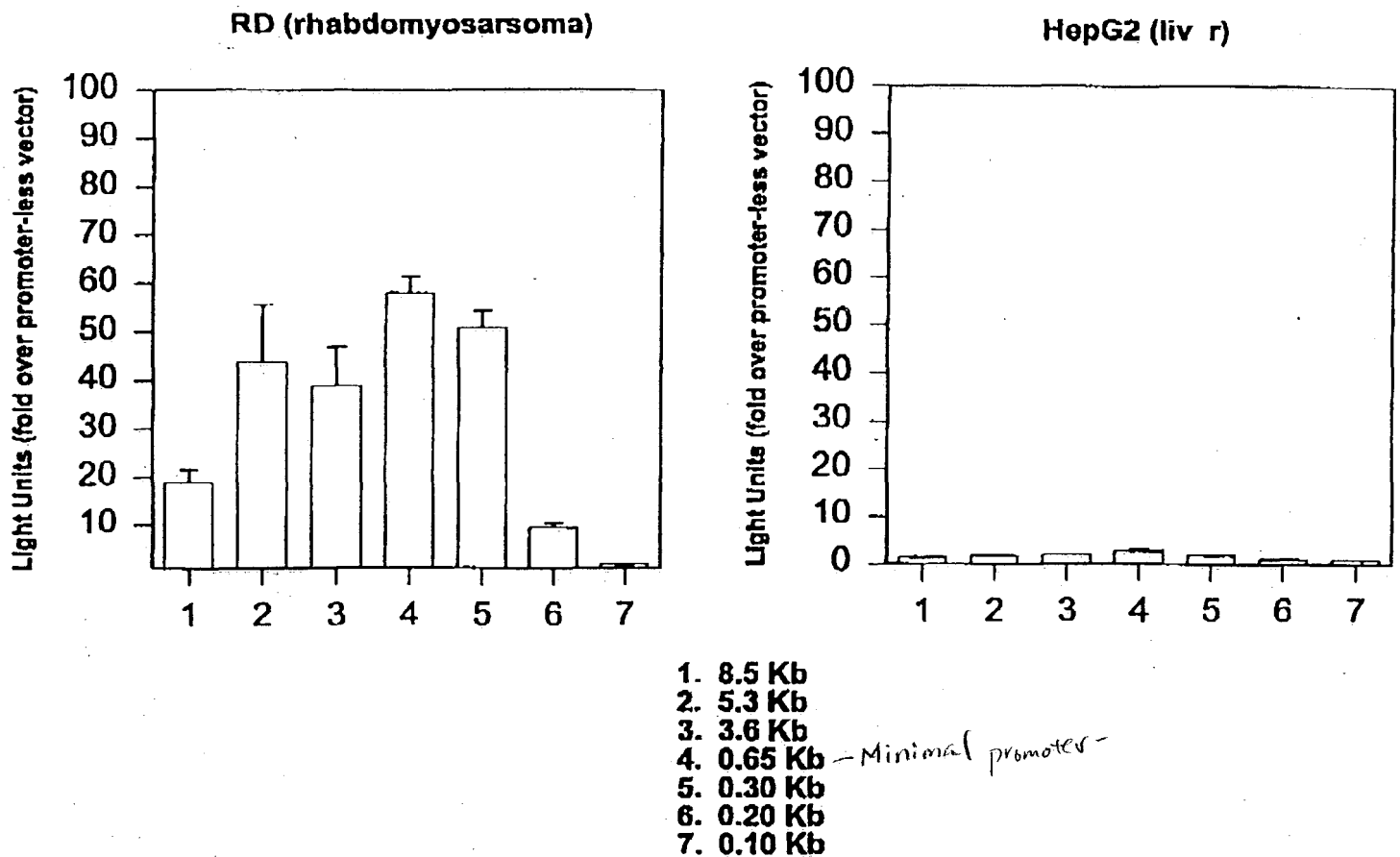


Figure 1A



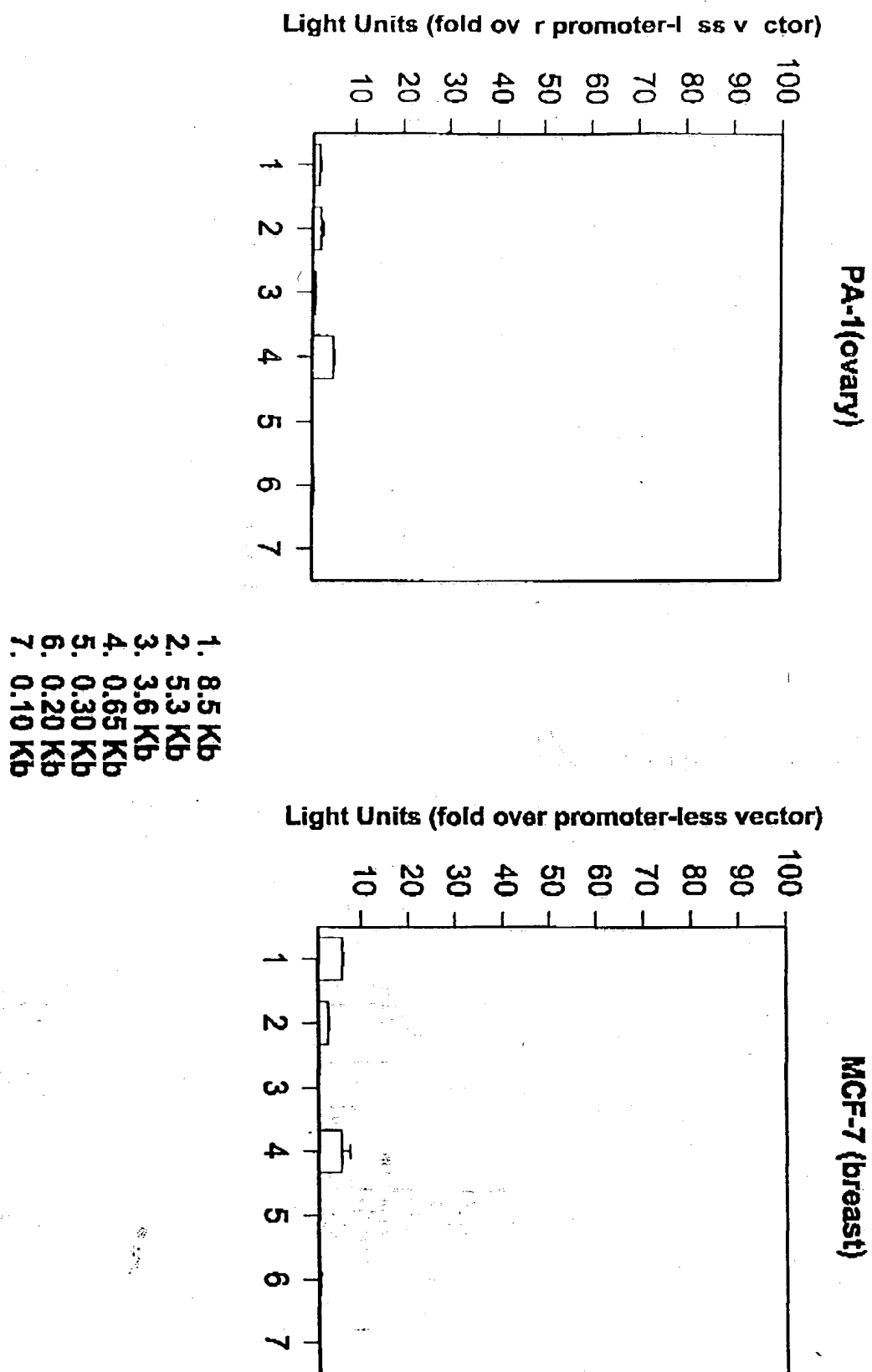
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Inventor: Li-fang Liang

Title: GROWTH DIFFERENTIATION FACTOR PROMOTER
 AND USES THEREFOR

Figure 1B



[ACTAGTATCA TAATCTTAAC TTTTAATTCA GGTCTTCCTA ATTTTTATTT
 TGATCATAGT ATTAGAATTG AAAATTAAGT CCAGAAGGAT TAAAATAAAA

 TCCTAATTAC TTGGCACTAA AAATAATTTA ATACAACAAA TAAAAATATT
 AFFATTAATG AACCGTGATT TTTATTAAAT TATGTTGTTT ATTTTTATAA

 TTCTACTTCA AATACTTGCC TAAACAATAT AAAATCATTT TAGTTTTTGA
 AAGATGAAGT TTATGAACGG ATTTGTTATA TTTTAGTAAA ATCAAAAAC
 - 437
 GGAAGTAATA TTTTCATATTT TAAATATGTA GTATAAATTA AAATTGACTT
 CCTTCATTAT AAAGTATAAA ATTTATACAT CATATTTAAT TTAACTGAA

 ATTTAAATTA CAATAAGAGT TGTGTGAGGA TTAGTAAGAT TTAAGTACAG
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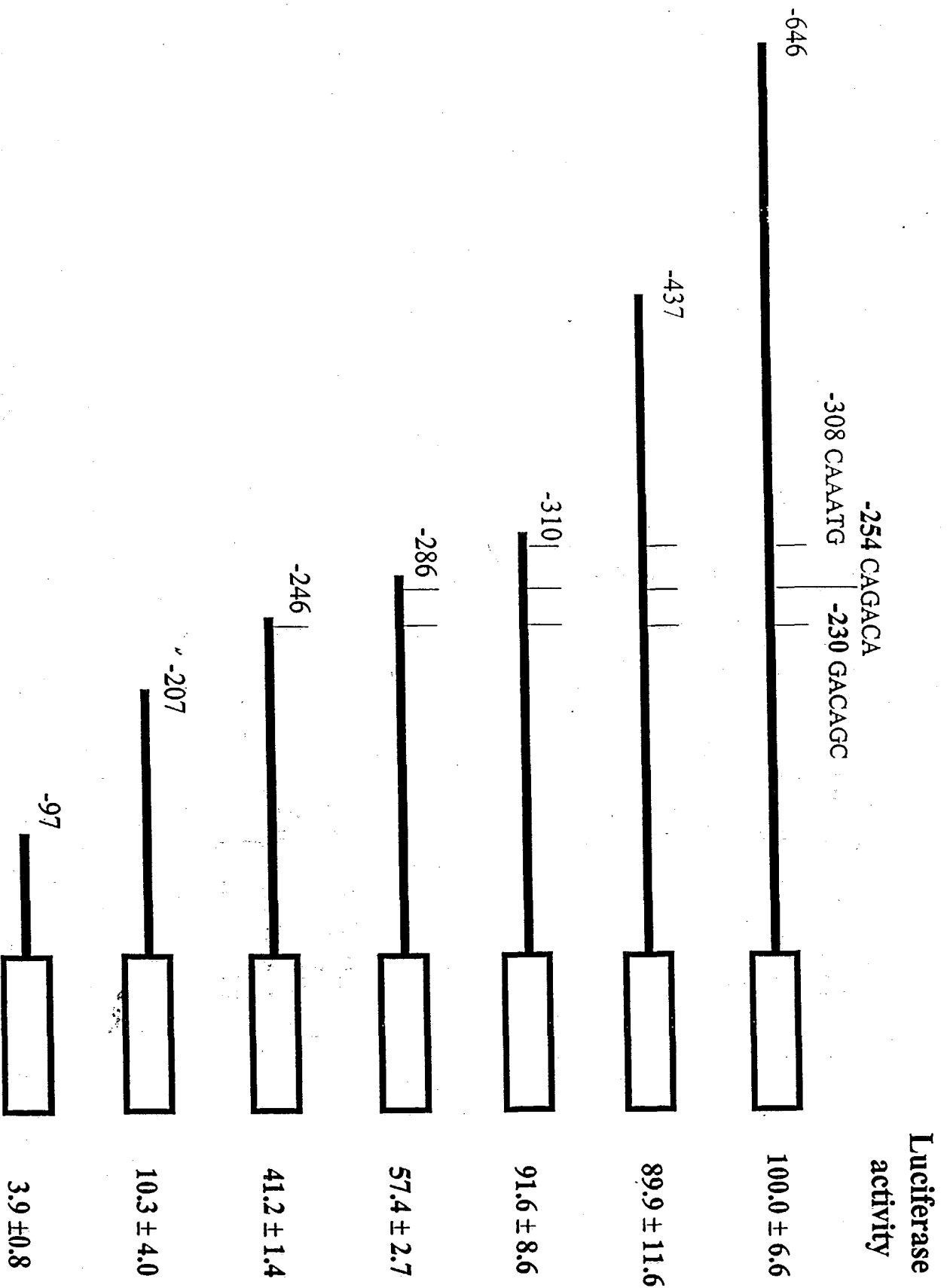
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 AAATATAATA ACGGTTGTAT CTGAAAACAA AAAGTTTACA GTGTTTATAG
 - 310
 TTTTATTATT TGTAGATTTA TTTCTTTTAT GAAGTAGTCA AATGAATCAG
 AAAATAATAA ACATCTAAAT AAAGAAAATA CTTCATCAGT TTAGTTAGTC
 - 286
 CTCACCCTTG ACTGTAACAA AATACTGCTT GGTGACTTGG GACAGACAGG
 GAGTGGAAC TGACATTGTT TTATGACGAA CCACTGAACC CTGTCTGTCC
 - 246 - 207
 GTTTTAACCT CTGACAGCGA GATTCATTGT GGAGCAAGAG CCAATCATAG
 CAAAATTGGA GACTGTCGCT CTAAGTAACA CCTCGTTCTC GGTTAGTATC

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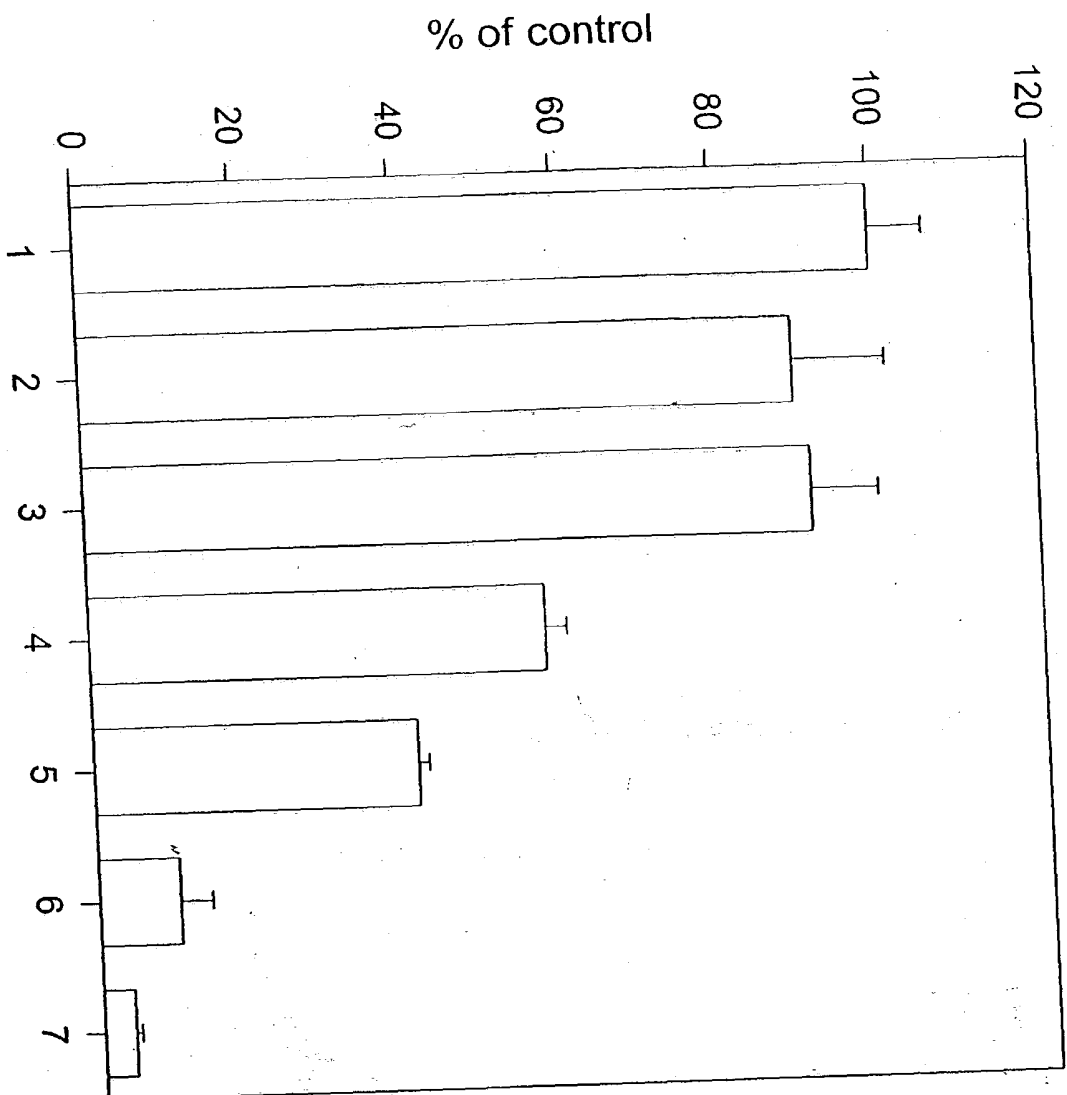
 AATACAGTAT AAAAGATTCA CTGGTGTGGC AAGTTGTCTC TCAGACTGTA
 TTATGTCATA TTTTCTAAGT GACCACACCG TTCAACAGAG AGTCTGACAT
 - 95
 CATGCATTAA AATTTTGCTT GGCATTACTC AAAAGCAAAA GAAAAGTAAA
 GTACGTAATT TTAAAACGAA CCGTAATGAG TTTTCGTTTT CTTTTCATTT
 +1
 AGGAAGAAAC AAGAACAAGA AAAAAGATTA TATTGATTTT AAAATCATG
 TCCTTCTTTG TTCTTGTTCT TTTTCTAAT ATAACATAAA TTTTAGTAC

Figure 2

Figure 3A



pGL3 Luciferase vectors in RD cells



1. pGL3-0.65 (control)
2. pGL3-0.44
3. pGL3-0.31
4. pGL3-0.29
5. pGL3-0.25
6. pGL3-0.21
7. pGL3-0.10

Figure 3B

092398b

Figure 4A

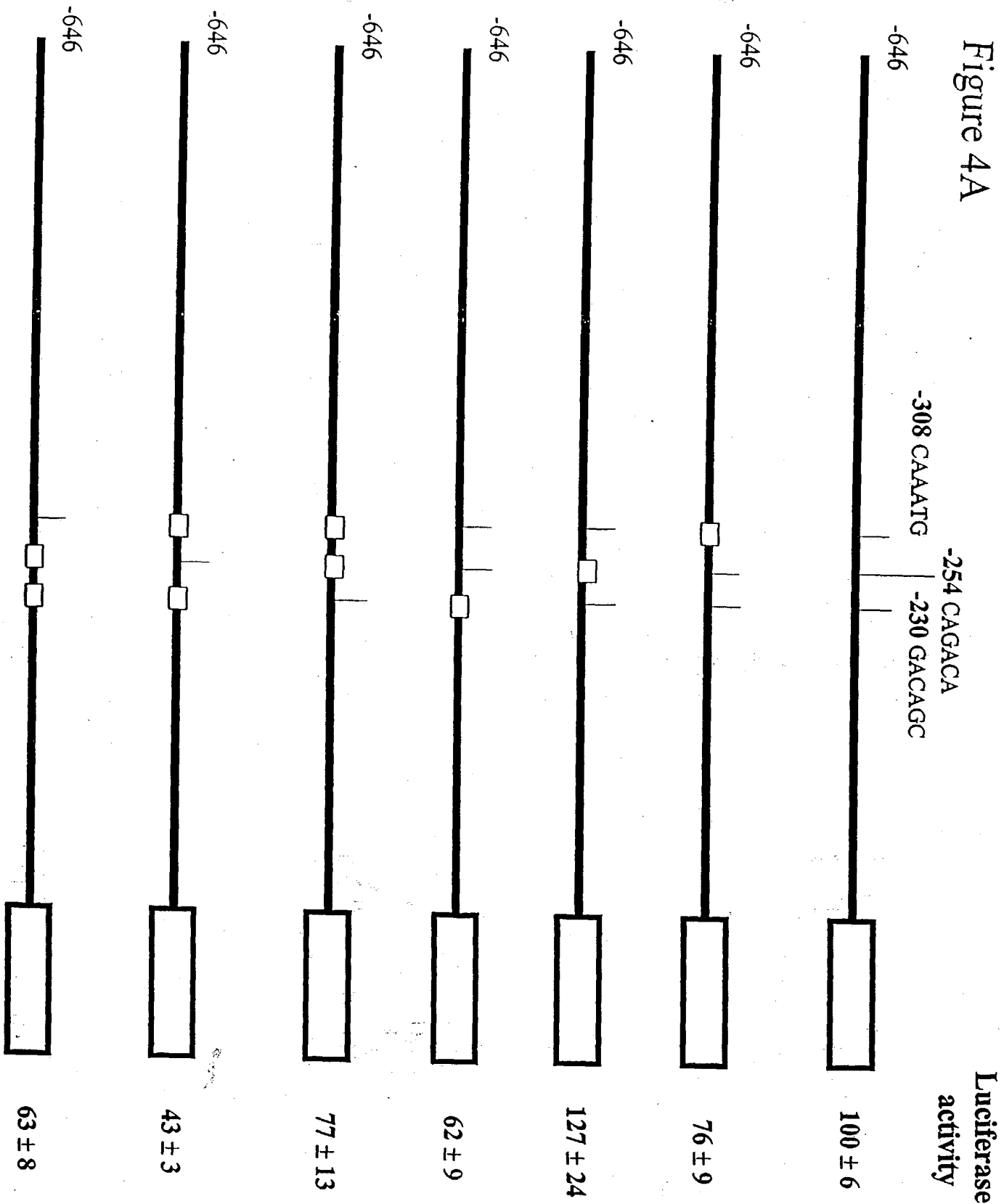
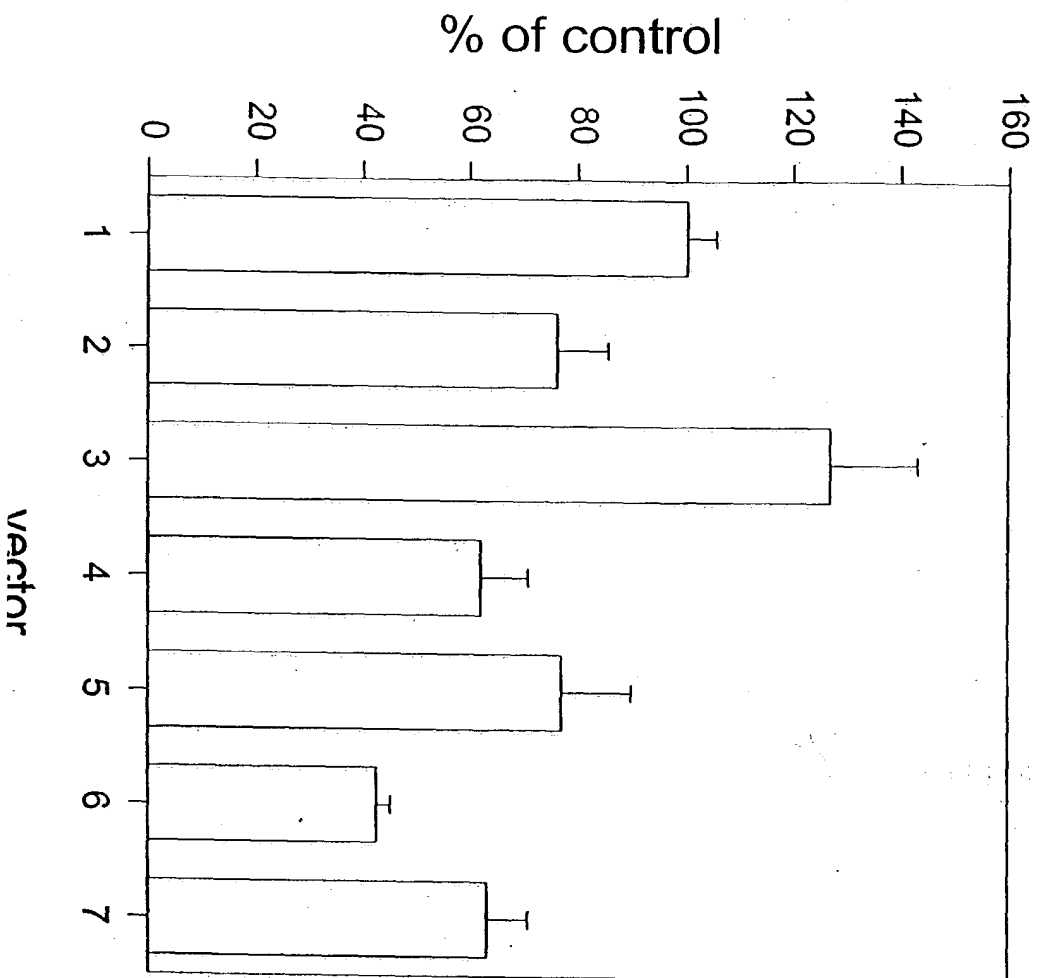


Figure 4B

Composite graph of all the transfection data to date of RD cells transfected with various mutated GDF-8 reporter constructs



1. pGL3-0.65 (control)
2. pGL3-0.65 mut1
3. pGL3-0.65 mut2
4. pGL3-0.65 mut3
5. pGL3-0.65 mut1,2
6. pGL3-0.65 mut1,3
7. pGL3-0.65 mut2,3

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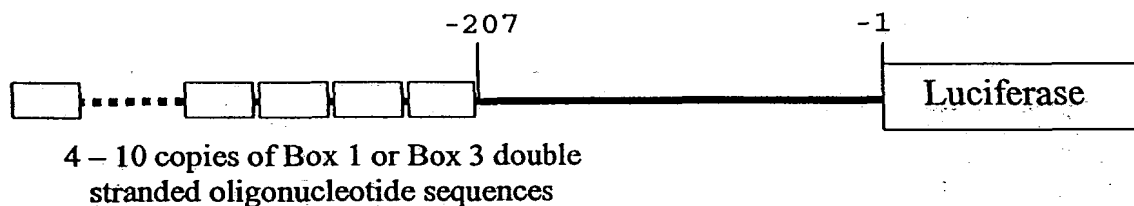
Figure 5A

Box 1 sequence (CAAATG)

GAGCTTTCTTTTATGAAGTAGTCAAATGAATCAGCTCACCTTG
AAAGAAAATACTTCATCAGTTTACTTAGTCGAGTGGGAACCTCG

Box 3 sequence (GACAGC)

GAGCGTTTTAACCTCTGACAGCGAGATTCATTGTGGAGCAAGAG
CAAAATTGGAGACTGTCGCTCTAAGTAACACCTCGTTCTCCTCG



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Figure 5B

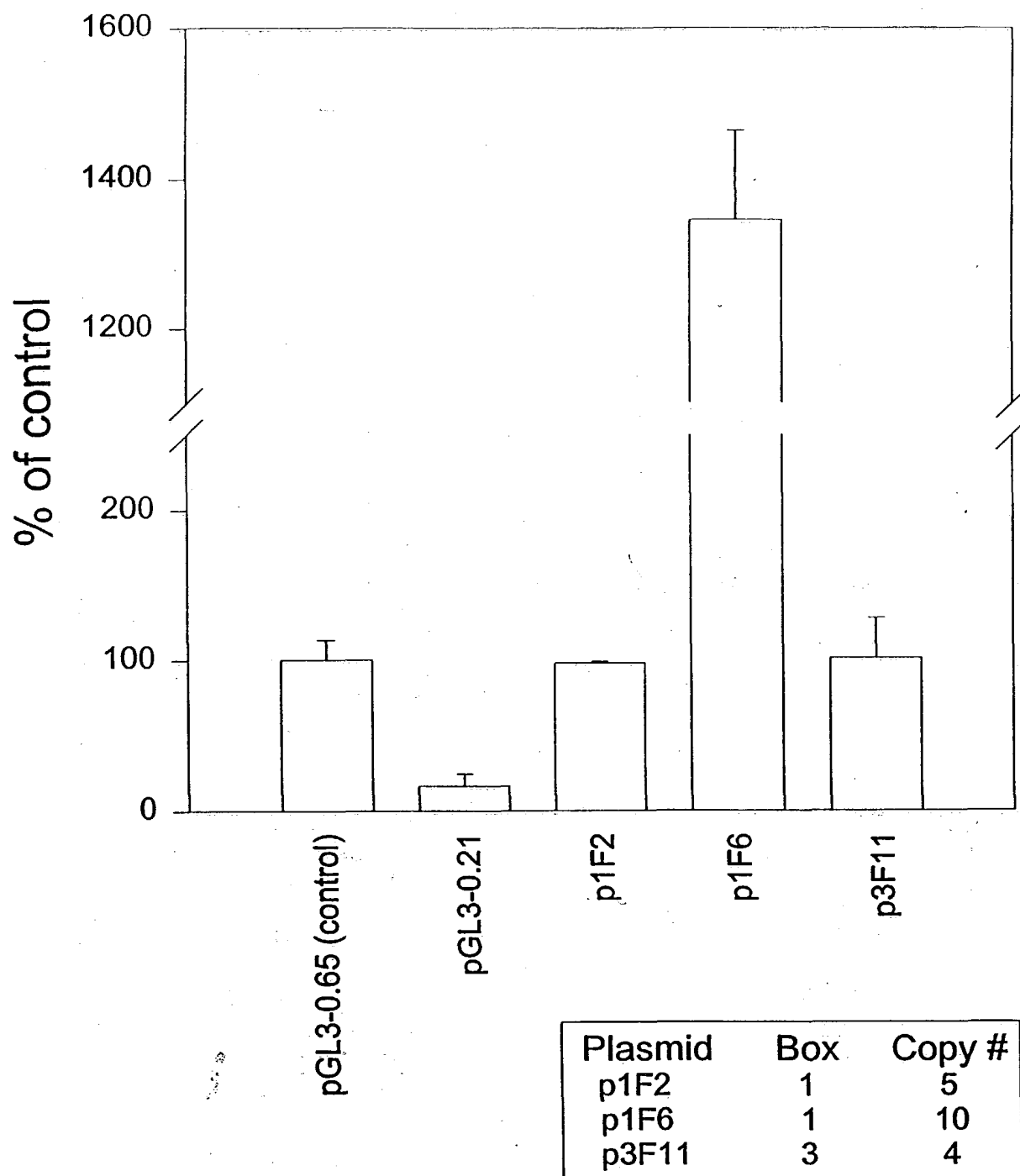
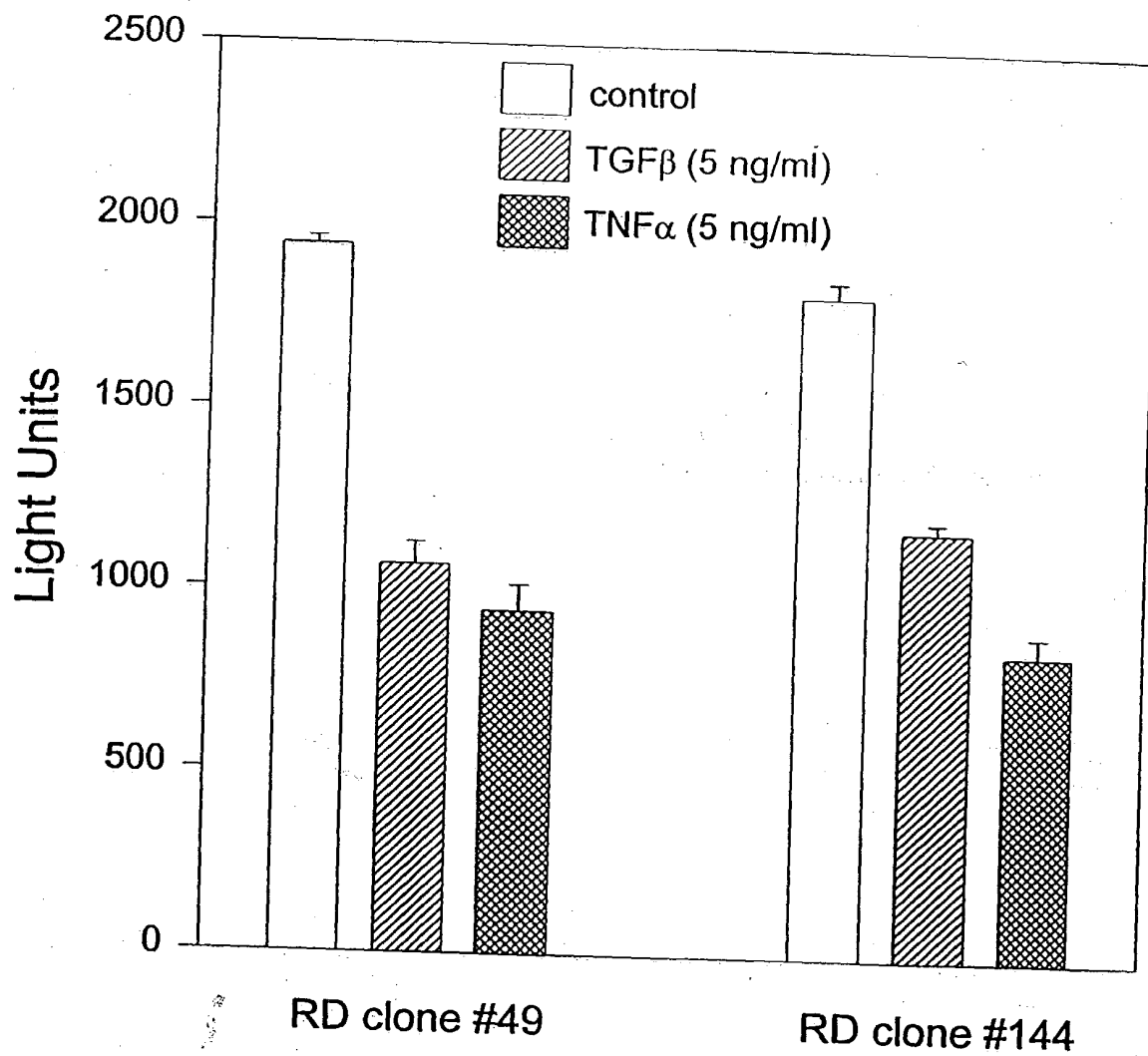


Figure 6



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10 20 30 40 50 60
 GTACAGTTTATATTAGTACACAGACTTCAATTTATCAAATGTCACATATATCTTTTCATGA
 CATGTCAAATATAATCATGTGTCTGAAGTTAAATAGTTTACAGTGTATATAGAAAGTACT

 70 80 90 100 110 120
 TTTGGGGATTTATTTTCATTTATGAAGTAGTCAAATGAATCAGCTTGCCCTCGACTGTAAC
 AAACCCCTAAATAAAGTAAATACTTCATCAGTTTACTTAGTCGAACGGGAGCTGACATTG

 130 140 150 160 170 180
 AAAATACTGCTTGGTGACTTGTGACAGACAGGGTTTTAACCTCTGACAGCGAGATTTCATT
 TTTTATGACGAACCACTGAACACTGTCTGTCCCAAAATTGGAGACTGTCGCTCTAAGTAA

 190 200 210 220 230 240
 GTGGAGCAGGAGCCAATCATAGATCCTGACGACACTTGTCTCCTCTAAGTTGGAATATAA
 CACCTCGTCCTCGGTTAGTATCTAGGACTGCTGTGAACAGAGGAGATTCAACCTTATATT

 250 260 270 280 290 300
 AAAGCCACTTGGAAATACAGTATACAGGACTCCCTGGCGTGGCAGGTTGTCTCTCGGACGG
 TTTCGGTGAACCTTATGTCATATGTCCTGAGGGACCGCACCGTCCAACAGAGAGCCTGCC

 310 320 330 340 350 360
 TACATGCACTAATATTTCACTTGGCATTACTCAAAAGCAAAAAGAAGAAATAAGAACAAG
 ATGTACGTGATTATAAAGTGAACCGTAATGAGTTTTTCGTTTTCTCTTTATTCTTGTTT

 370 380 390
 GGAAAAAAAAAGATTGTGCTGATTTTTTAAATGATG
 CCTTTTTTTTTCTAACACGACTAAAAATTTTACTAC

Figure 7A

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10 20 30 40 50 60
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 AAGCCATANATTAAACGACGGGTCCCTAAANCNACTGTTTCCGTTTGACCNAATTNAATTA
 70 80 90 100 110 120
 AGGGTCCACACTTCAGTAATGAATTTTGATANTAAAGGTCCCAATAGTTAGCANTTATAG
 TCCCAGGTGTGAAGTCATTACTTAAAACTATNATTTCCAGGGTTATCAATCGTNAATATC
 130 140 150 160 170 180
 TCACACGTGAACAAAATGTTTATTCNTGNNTNACNTAGNACNTATCAGGAAAACCTATCAT
 AGTGTGCACTTGTTTTACAAATAAGNACNANTGNATCNTGNATAGTCCTTTTGGATAGTA
 190 200 210 220 230 240
 GATTTTCTGAAATCTGAGCTGCTTAATGCACGTGAACCTGTTGAACAGCATGGATTCTCTCG
 CTAAGAACTTTAGACTCGACGAATTACGTGCACTTGACAACCTTGTCGTACCTAAGGAGC
 250 260 270 280 290 300
 TGTTTGCAATGTATTTATAATGTATTTTTTCCCTCCTCCTAACAGAAATCCCTCAGAA
 ACAACGTTACATAAAATATTACATAAAAAAAGGGGAGGAGGATTGTCTTTAGGGAGTCTT
 310 320 330 340 350 360
 TTTTCCTTGAGGTAGTACAAACTTTTCAGCCACAATAGTGATAGAATCCTAAAGGAACCTT
 AAAAGAACTCCATCATGTTTGAAAGTCGGTGTTATCACTATCTTAGGATTTCTTGGA
 370 380 390 400 410 420
 AAAAGAGAGCTCTGCCTCAATTCATAGTCCAACCTATGCGTTTCAGTGTATATTTAAGAATG
 TTTTCTCTCGAGACGGAGTTAAGTATCAGGTTGATACGCAAGTCACATATAAATTCTTAC
 430 440 450 460 470 480
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 TATCACGACAGAAGGTCTGTGACGACGGGTATCATGAACCTTTATATAGGAAAGTCATACA
 490 500 510 520 530 540
 GAAGACGTATCCTTTACGAAGCCACCATATAAATCAGTTCACCTTGGCTGTAACCAAAT
 CTTCTGCATAGGAAATGCTTCGGTGGTATATTTAGTCAAGTGGGAACCGACATTGGTTTA
 550 560 570 580 590 600
 GCTGTCTAGTGACTTGTGATCGACAGGGCTTTAACCTCTGACAGCTAGATTTCATTGTTGG
 CGACAGATCACTGAACACTAGCTGTCCCGAAATTGGAGACTGTGATCTAAGTAACAACC
 610 620 630 640 650 660
 GACAACAACCAATCGTCGGTTTTGACGACATGAGCCTAATCAAAGTTGGAGTATAAAAGC
 CTGTTGTTGGTTAGCAGCCAAAACCTGCTGTACTCGGATTAGTTTCAACCTCATATTTTCG
 670 680 690 700 710 720
 CCCCTTGGCATATATAAGGCACACCAGTGTGGCAAGCCGTCTCTCAGATTGCATTTGCTG
 GGGGAACCGTATATATTCCGTGTGGTCACACCGTTTCGGCAGAGAGTCTAACGTAAACGAC
 730 740 750 760 770 780
 TCACGGATCTGTTTAGAACTGAAAGAAAAGGGGAAAGGGAGAGGGGGGAAAAAAGGGCAA
 AGTGCCTAGACAAATCTTGACTTTCTTTTCCCTTTCCCTCTCCCCCTTTTTTCCCGTT
 790
 AAAGCTGCAGTGACTGTAA
 TTTTCGACGTCACTGACATT

Figure 7B

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Docket No. MTN:027DV1CN

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Figure 8

Human	GAAGTAGTCAATTCGATCAGGTCAGGCTTCAGTGTAAAGAAATAGTCTTCGGTG
Mouse	GAAGTAGTCAATTCGATCAGGCTTCAGGCTTCAGTGTAAAGAAATAGTCTTCGGTG
Pig	GAAGTAGTCAATTCGATCAGGTCAGGCTTCAGTGTAAAGAAATAGTCTTCGGTG
Chicken	GAAGCCACCATATAAATCAGTTCAGGCTTCGGCTGTAAGCAATTCGATCTCAGTG

Human	ACTTGGCAAGACAGGCTTTTAAACCTCTGACAGCGAGATTCAATTCCTTCAGGAA
Mouse	ACTTGGCAAGACAGGCTTTTAAACCTCTGACAGCGAGATTCAATTCCTTCAGGAA
Pig	ACTTGGCAAGACAGGCTTTTAAACCTCTGACAGCGAGATTCAATTCCTTCAGGAA
Chicken	ACTTGTGATCGACAGGCTTTTAAACCTCTGACAGCGAGATTCAATTCCTTCAGGAA

Human	GAGGCAATCATAGATCCTGACGAGACCTTCTCTCATCTAAGTTGGAATATAA
Mouse	GAGGCAATCATAGATCCTGACGAGACCTTCTCTCATCTAAGTTGGAATATAA
Pig	GAGGCAATCATAGATCCTGACGAGACCTTCTCTCATCTAAGTTGGAATATAA
Chicken	CAAGCAATCTGTCCTTTTGAAGGACATGACCTTAATCAAGTTGGAATATAA

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